



# Product Evaluation

WIN2224 | 0617

Engineering Services Program

*The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.*

*For more information, contact TDI Engineering Services Program at (800) 248-6032.*

**Evaluation ID:** WIN-2224

**Effective Date:** June 1, 2017

**Re-evaluation Date:** April 2018

**Product Name:** Series PW-8150 Vinyl Picture/Fixed Window, Impact Resistant

**Manufacturer:** Custom Window Systems, Inc.  
1900 SW 44th Ave.  
Ocala, FL 34474  
(352) 368-6922

## General Description:

| System | Description   | Label Rating                        | Design Pressure Rating |
|--------|---|-------------------------------------|------------------------|
| 1      | Series PW-8100 PVC Picture Window Fin/Flange (O)                | C75 36x72-FW<br>Missile Level D     | +/-75 psf              |
| 2      | Series PW-8150 PVC Picture Window Fin/Flange (O)                | CW-PG65 72x76-FW<br>Missile Level D | +/-67.5 psf            |
| 3      | Series PW-8150 PVC Picture Window Fin/Flange (O)                | LC-PG60 36x72-FW<br>Missile Level D | +/-60 psf              |
| 4      | Series PW-8150 PVC Picture Window Combination - Fin/Flange (OO) | C65 74x72-FW<br>Missile Level D     | +/-65 psf              |

## Product Dimensions:

| System | Overall Size | Fixed Daylight Opening   |
|--------|--------------|--------------------------|
| 1      | 36" x 72"    | 31-13/16" x 67-13/16"    |
| 2      | 72" x 76"    | 67-13/16" x 71-13/16"    |
| 3      | 36" x 72"    | 31-13/16" x 67-13/16"    |
| 4      | 74" x 72"    | 32-3/16" x 67-13/16" (2) |

**Product Identification (Certification Label on Window):**

| System |                                  |  |
|--------|----------------------------------|--|
| 1      | Certification Agency             | Keystone   |
|        | Manufacturer's Name or Code Name | CAR 138-491 Air/Water/Structural,<br>CAR 138-259 Impact                                |
|        | Product Name                     | 8100 Vinyl Fin/Flange Frame Impact Fixed   |
|        | Test Standards                   | AAMA/WDMA/CSA 101/I.S.2/A440-05,<br>ASTM E 1886, ASTM E-1996-05, Missile Level D       |
| 2      | Certification Agency             | Keystone   |
|        | Manufacturer's Name or Code Name | CAR 138-1362 Air/Water/Structural,<br>CAR 138-562 Impact                               |
|        | Product Name                     | 8150 Impact Fixed  |
|        | Test Standards                   | AAMA/WDMA/CSA 101/I.S.2/A440-08,<br>ASTM E 1886-05, ASTM E-1996-05/09, Missile Level D |
| 3      | Certification Agency             | Keystone   |
|        | Manufacturer's Name or Code Name | CAR 138-1095 Air/Water/Structural,<br>CAR 138-536 Impact                               |
|        | Product Name                     | 8150 PVC Fin/Flange Frame Impact Fixed Picture   |
|        | Test Standards                   | AAMA/WDMA/CSA 101/I.S.2/A440-08,<br>ASTM E 1886-05, ASTM E-1996-05/09, Missile Level D |
| 4      | Certification Agency             | Keystone   |
|        | Manufacturer's Name or Code Name | CAR 138-705 Air/Water/Structural,<br>CAR 138-261 Impact                                |
|        | Product Name                     | PW 8150 PVC Fin/Flange Impact Fixed Twin Comb Assy                                     |
|        | Test Standards                   | AAMA/WDMA/CSA 101/I.S.2/A440-05,<br>ASTM E 1886, ASTM E-1996-05, Missile Level D       |

**Impact Resistance:**

| System | Impact Resistant | Requirement  |
|--------|------------------|--|
| 1-4    | Yes              | These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies. |

**Acceptance of Smaller Assemblies:** Window assemblies with dimensions equal to or smaller than those specified are acceptable with the limitations specified in this report.

**Installation:**

| System | Impact Resistant          | Requirement   |
|--------|---------------------------|---|
| 1-4    | Type of Installation      | Install the windows in accordance with Custom Window Systems drawing No: TDI-433 Sheets 1 through 6 of 6. Dated November 19, 2015. TDI-510 Sheets 1 through 5 of 5. Dated November 12, 2015. TDI-1032 Sheets 1 through 6 of 6. Dated November 12, 2015. Drawings signed and sealed on September 29, 2016 by Lucas A. Turner, P.E. |
|        | Wall Framing              |   |
|        | Fasteners                 |   |
|        | Fastener Location/Spacing |   |
|        | Fastener Penetration      |   |

**Note:** Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.